

Bérénice Batut

POST-DOCTORAL RESEARCHER · BIOINFORMATICS & TRAINING

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Education

Doctor in science

INSTITUT NATIONAL DES SCIENCES APPLIQUÉES

- In silico experimental evolution
- Comparative genomics with phylogeny

Lyon, France

Oct. 2011 - Nov. 2014

Master degree

ECOLE NORMALE SUPÉRIEURE & UNIVERSITY CLAUDE BERNARD

- Theoretical computer science
- Complex system modelling

Lyon, France

Oct. 2010 - Oct. 2011

Master of Engineering

INSTITUT NATIONAL DES SCIENCES APPLIQUÉES

- Bioinformatics and Modelling

Lyon, France

Oct. 2018 - Oct. 2019

Skills

Bioinformatics HTS data analysis (RNA-Seq, metagenomics), comparative microbial genomics, phylogenetics

Software development Python, R

Workflow management Galaxy, Snakemake

Training Data analysis, Galaxy, Software development, Software Carpentry instructor

Community Galaxy Traing community manager, Mozilla Open Leader, Software Carpentry mentor

Experience

Post-doctoral researcher

GALAXY TEAM, BACKOFEN LAB, UNIVERSITY OF FREIBURG

- Data analysis of High-Throughput sequencing data (RNA-seq, metagenomics, single-cell RNA-seq, etc)
- Training on Galaxy use, data analysis and software development
- Development and maintenance of the Training Material repository of the Galaxy Training Network
- Management of Galaxy Training community
- Member of the training group of de.NBI, the German Network for Bioinformatics infrastructure
- Development of command-line tools, tools for Galaxy, packages for BioConda
- Teaching to computer science master students

Freiburg, Germany

Aug. 2016 - Today

Post-doctoral researcher

CIDAM, UNIVERSITÉ D'Auvergne

- Development of metagenomics tools for Galaxy
- Data analysis of metagenomics data
- Teaching to bioinformatics undergrad students

Clermont-Ferrand, France

Jan. 2015 - Jun. 2016

PhD student & researcher

INSTITUT NATIONAL DES SCIENCES APPLIQUÉES

- In silico experimental evolution
- Comparative genomics with phylogeny
- Teaching to bioinformatics undergrad students

Lyon, France

Oct. 2011 - Nov. 2014

Extracurricular Activity

Founder and Organizer

OPEN LIFE SCIENCE

- 15 week mentorship program and cohort-based training for Open Science Ambassadors

<https://openlifesci.org/>

Sep. 2019 - Today

Deputy training coordinator

ELIXIR GERMANY

Feb. 2019 - Today

Founder and Manager

STREET SCIENCE COMMUNITY

<https://streetscience.community/>

Nov. 2018 - Today

- Outreach program for pupils, students and citizens
- Organization of workshops on molecular biology and data-analysis

Mozilla Open Leader

MOZILLA FOUNDATION

Sep. 2018 - Today

- Mentoring
- 14 week leadership development program

Mentor

THE CARPENTRIES

Sep. 2018 - Sep, 2019

- Mentoring on community building and material development

Member

TRAINING GROUP (SIG3) OF THE GERMAN NETWORK FOR BIOINFORMATICS INFRASTRUCTURE

Dec. 2016 - Today

Instructor

THE CARPENTRIES

March. 2016 - Today

- Training for foundational computational and data science skills to researchers
- Unix Shell, Version Control with Git, Plotting and Programming with Python and R

Training & Teaching

The complete list of teaching and training can be found: <http://research.bebatut.fr/training>

2019

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|----------------------|--|-------------------|
| Oct. 19 | RNA-seq workshop for beginners: from sequences to visualization using Galaxy and R , 3 days workshop | Online |
| Jun. 19 | Train the Galaxy Trainer, Metatranscriptomics analysis, and Open source project management , 3 x 1.5 h workshops at the Galaxy Community Conference | Freiburg, Germany |
| Jun. 19 | RNA-seq workshop for beginners: from sequences to visualization using Galaxy , 2 days workshop | Online |
| Feb. 19 | Galaxy data analysis (introduction, ChIP-seq, RNA-seq) , 5 days workshop | Freiburg, Germany |
| Jan. 19 | Galaxy RNA-seq data analysis , 2 days workshop | Belgrade, Serbia |
| Oct. 18 -
Feb. 19 | Introduction to data-driven life science , Lectures and exercises to computer science master students | Freiburg, Germany |

Publications

The complete list of publications is available online: <https://orcid.org/0000-0001-9852-1987>

ASaiM: a Galaxy-based framework to analyze microbiota data

Batut B al

GigaScience (May 2018). Oxford University Press (OUP), 2018

Community-Driven Data Analysis Training for Biology

Batut B al

Cell systems (June 2018). 2018

ENASearch: A Python library for interacting with ENA's API

Batut B, Gruening B A

The Journal of Open Source Software (2017). 2017

Environmental pollutant Benzo[a]Pyrene impacts the volatile metabolome and transcriptome of the human gut microbiota

Defois C, Ratel J, Denis S, Batut B al

Frontiers in Microbiology 8:AUG (2017). 2017

Reductive genome evolution at both ends of the bacterial population size spectrum

Batut B al

Nature Reviews Microbiology 12.12 (2014) p. 841. Nature Publishing Group, 2014

In silico experimental evolution: a tool to test evolutionary scenarios

Batut B al

BMC bioinformatics, 2013